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	Application No.	Applicant(s)	
Notice of Allowability	09/751,772	SELKIRK ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Susan Y Chen	2161	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	plication. If not included n will be mailed in due co	l ourse. THIS
1. \boxtimes This communication is responsive to <u>appeal brief filed on 1</u>	<u>1/29/2004</u> .		
2. The allowed claim(s) is/are <u>12-15,17-22,24-28 and 30-32</u> .			
3. \boxtimes The drawings filed on $\underline{06/25/2001}$ are accepted by the Exa	miner.		
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No		on from the
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requ	irements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			TICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.		
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	-948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the			ack) of
7. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT			te the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	5. Notice of Informal F 6. Interview Summary Paper No./Mail Da 7. Examiner's Amenda 8. Examiner's Stateme 9. Other	(PTO-413), te ment/Comment	

Application/Control Number: 09/751,772

Art Unit: 2161

DETAILED ACTION

This office action is in response to the appeal brief filed on 11/29/2004.

Claims on appeal are: 12-15, 17-22, 24-28 and 30-32.

Response to Arguments

Applicant's arguments, see pages 9-10 of instant appeal brief, filed on 11/29/2004, with respect to the provisional application 60/212,260 of U.S. Patent No. 6,532,527 issued to Selkirk et al. have been fully considered and are persuasive. The 35 U.S.C. § 102(e) rejection of claims 12-15, 17-22 24-28 and 30-32 has been withdrawn.

Allowable Subject Matter

Claims 12-15, 17-22, 24-28 and 30-32 are allowed.

The following is an examiner's statement of reasons for allowance:

Claims 12, 19, 26 and 32 are allowable because the prior art on record or that encountered in searching for the invention, fails to disclose or suggest the features of instant invention – generating a hierarchical data structure in a primary storage device to includes a plurality of layers arranged to a correlation scheme, wherein, each data

Application/Control Number: 09/751,772

Art Unit: 2161

entry in the lowest layer of the hierarchical structure corresponds to both a virtual address range in the virtual address space and a physical data block in the at least one data storage device, wherein each data entry contained within the primary storage corresponds to a virtual address range that is currently occupied with stored data, such that none of the data entries corresponds to only unused physical storage; and each physical data block in the at least one o the storage device contains virtual address information that identifies at least one corresponding location in the virtual address space for that physical data block; and at least some of the data entries in each layer represent virtual address ranges of a homogeneous size corresponding to that layer.

Claims 13-15, 18-22, 23-28 and 30-31 respectively depend on claims 12, 19 and 26 therefore are also allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Susan Y Chen whose telephone number is 571-272-4016. The examiner can normally be reached on Monday - Friday from 7:00-4:30.

Application/Control Number: 09/751,772

Art Unit: 2161

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Safet Metjahic can be reached on 571-272-4023. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Susan Y Chen Examiner Art Unit 2161

February 11, 2005

JYEN LE RY EXAMINER